

REMARKS

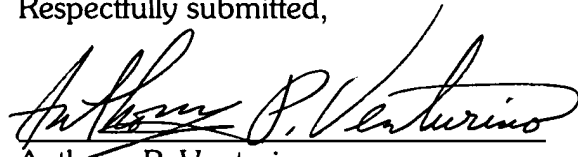
The claims have been amended to delete the multiple dependent claim status and improve readability. No new matter is presented by the above amendments. Claim 15 is supported as is Claim 3. Claim 16 is supported as is Claim 5.

Early and favorable consideration of this application is respectfully requested.

Respectfully submitted,

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ATTACHMENT II - Marked Up Set of Claims

1. Cooling panel for a shaft furnace [of the type through which], comprising at least one vertical duct which runs through the cooling panel, the ends of [which] the at least one duct are connected to connection ends running transversely with respect to the plane of the cooling panel, [in which furthermore] wherein each duct and the connection ends are formed from a continuous tube made from a material selected from the group consisting of low-carbon steel, stainless steel and an alloy which predominantly comprises Cu and Ni with an Ni content of $\geq 28\%$ by weight, and the remainder of the cooling panel consists of copper which is cast around this tube, the cooling panel being provided, on [the] a side remote from the connection ends, with a multiplicity of horizontal ribs.

2. (Amended) Cooling panel according to Claim 1, [characterized in that] wherein the material of the continuous tube contains between 65 and 70% by weight Ni, approx. 3% Fe and $\leq 1\%$ of one or more of the elements Mn, Si and C.

3. (Amended) Cooling panel according to Claim 2, [characterized in that] wherein the material of the continuous tube consists of Monel, with a composition of approx. 28% Cu, 68% Ni, 3% Fe, 1% Mn and low Si and/or C contents.

4. (Amended) Cooling panel according to [one of Claims 1-3] Claim 1, [characterized in that] wherein the ribs have a length, in the width direction of the cooling panel, which is smaller than the width of the cooling panel.

5. (Amended) Cooling panel according to Claim 4, [characterized in that] wherein the ribs have a length in the width direction of the cooling panel of $\leq 50\%$ [, preferably $\leq 25\%$,] of the width of the panel.
6. (Amended) Cooling panel according to [one of Claims 1-5] Claim 1, [characterized in that] wherein the ribs are provided with supporting backs.
7. (Amended) Cooling panel according to Claim 6, [characterized in that] wherein each of the ribs with a supporting back is T-shaped in cross section, parallel to the plane of the cooling panel.
8. (Amended) Cooling panel according to Claim 6, [characterized in that] wherein each of the ribs with supporting backs are in the shape of a + in cross section, parallel to the plane of the cooling panel.
9. (Amended) Cooling panel according to Claim 6, [characterized in that] wherein the ribs are provided with supporting backs on either side in the vicinity of their ends.
10. (Amended) Cooling panel according to [one of Claims 1-9] Claim 1, [characterized in that] wherein the wall is provided, on the side of the connection ends, on either side of each duct, with undulating recesses in which reinforcing walls which fill up these recesses are distributed over the height of the cooling panel.
11. (Amended) Cooling panel according to [one of Claims 1-10] Claim 1, [characterized in that] wherein the wall, on the side remote from the connection ends, is provided, on either side of each duct, with undulating recesses.

12. (Amended) Cooling panel according to Claim 1, [characterized in that] wherein the ribs thicken towards their free ends remote from the main body of the cooling panel.
13. (Amended) Shaft furnace provided with a jacket which on the inside is at least partially provided with cooling panels according [to one of Claims 1-12] Claim 1.
14. (Amended) Process for producing a cooling panel according to [one of Claims 2-13] Claim 2, [characterized in that] wherein the continuous tube (or tubes) is firstly given its final shape, after which the copper for the cooling-panel body to be formed is cast as cast material around [it] the tube at a temperature which is so close to the melting point of material of the tube [material] that, after the cast material has cooled, [it] the cast material is attached to the [tube] material of the tube.